Itona TC61yy

Itona TC63yy

Hardware User's Guide

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Federal Communication Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment Off and On, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / television technician for help.

Each Thin Client is equipped with a FCC compliance label that shows only the FCC identification number. The full information of the associated label is as follows:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Warning

- DO NOT open enclosure, Hazard voltages present inside equipment.
- Ensure that all expansion slots (on the back or side of the computer) are covered with metal retaining brackets, and tightly attached to the computer cabinet.
- Only equipment certified to comply with Class B (computer input/output devices, terminals, printer's etc.) should be attached to this equipment, and must have shielded interface cables.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This equipment should not be used in Electro-medical applications.
- There are no user serviceable parts inside. DO NOT open enclosure, Hazard voltages present inside equipment. DO NOT disassemble the equipment as this can nullify your warranty
- DO NOT operate this equipment in corrosive or explosive atmosphere.
- DO NOT operate this equipment outside specified temperature limits.
- This equipment must be earthed.
- The AC socket outlet shall be installed near the equipment and shall be easily accessible.
- Replace the Battery only with the same or equivalent type recommended by the manufacturer.

Preface

Thank you for purchasing the Itona TC61yy / TC63yy. This guide contains information to setup and use the hardware of Itona TC61yy / TC63yy.

The guide consists of the following chapters:

- **Introduction**: provides an overview of the product.
- **Installation**: contains the procedure to setup the hardware.
- **Specifications**: provides hardware, mechanical, electrical, interface and operating environment specifications.
- **Connectors and Cables**: provides detailed specifications for connectors and cables used with the product.
- **Troubleshooting**: provides solutions to problems that you may encounter while using the product.

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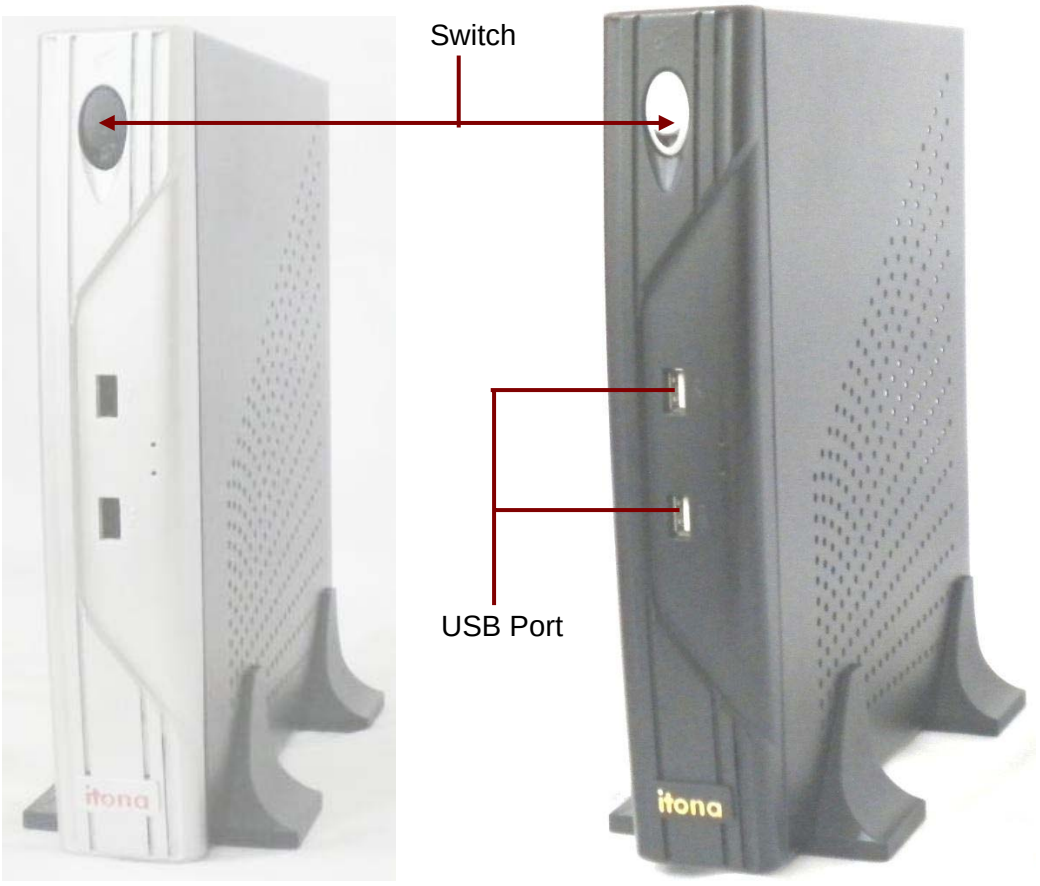
Introduction

Overview

This guide covers hardware details of Itona TC61yy and TC63yy.



Itona TC61YY **Itona TC63YY**

Front View

Itona TC61yy / TC63yy deliver smart and robust solutions for Thin Client computing. They are aesthetically and ergonomically designed compact desktop. Itona series thin clients offer fanless CPU solution to enhance reliability**.**

Installation

Step One: Unpack

Unpack the unit taking care not to drop the product whilst removing from the packaging.
The carton in which the product was shipped to you contains the following:

- Itona TC61yy / TC63yy
- Power Cord (Optional)
- Wall Mounting Bracket –Single side

When you open the carton, if you find any discrepancy between the contents of the carton and the above list, contact the dealer or reseller from whom you have purchased the product, immediately.

NOTE: PLEASE RETAIN THE ORIGINAL CARTON AND PACKING MATERIAL. THEY WOULD BE REQUIRED TO AVOID DAMAGE DURING TRANSIT (IF REQUIRED IN FUTURE).

Step Two: Prepare

1. The site where you want to install the product must have the following
   - 100~240V AC, 1.2A, 50/60 Hz, 3-pin power Inlet for client (Itona TC61yy / TC63yy).

NOTE: ENSURE THAT THE POWER INLET PLUG IS PROPERLY REGULATED AND EARTHED. A FLOATING GROUND / CHASSIS COULD CAUSE AN ELECTRIC SHOCK.

   - Well ventilated, clean, dry and dust free atmosphere.
   - Ensure a minimum space of 2 inches (5 cm) on all sides of the unit for efficient convection cooling.
   - The product can only be used in vertical position

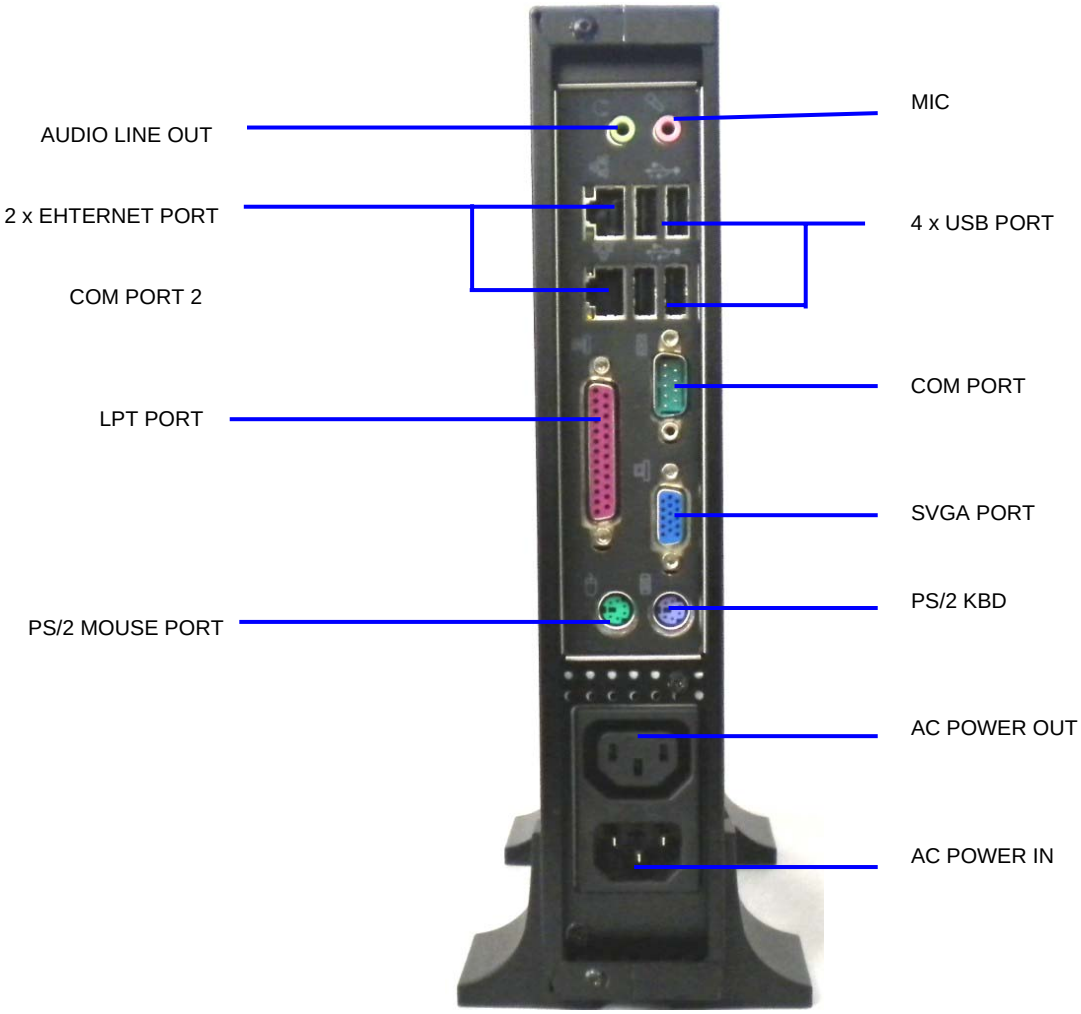
Caution – This Product cannot be placed flat on desk as it will block the ventilation opening and affect the heating effect.

Note: - For more Details – Refer to Installation and Best Practices Guide.

Step Three: Connect accessories and power

NOTE: BEFORE CONNECTING ANY CABLES, ENSURE POWER CABLE IS UNPLUGED FROM THE UNIT. PLEASE USE 6A (MIN) / 250V AC 0.75 sq mm, 18AWG 3C, H05VV-F / SVT / SPT-2, CERTIFIED POWER CORD.

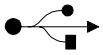
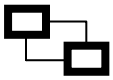
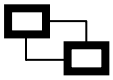
Pictures below show the various connectors available on the rear panel of the Itona TC61yy and TC63yy.



Itona TC61yy / Itona TC63yy

Rear view

The table below identifies the devices to be used with each connector of the client.

Ports	**Connector Symbol**
✓ Video port	
✓ USB ports	
✓ LINE OUT port	
✓ Microphone input port	
✓ PS/2 Keyboard port	
✓ PS/2 Mouse port	
✓ COM port	
✓ Parallel / LPT port	
✓ Ethernet port 1	
✓ Ethernet port 2	

Ensure that COM, VGA and Parallel ports are adequately fastened with the screws provided with the cables.

Specifications

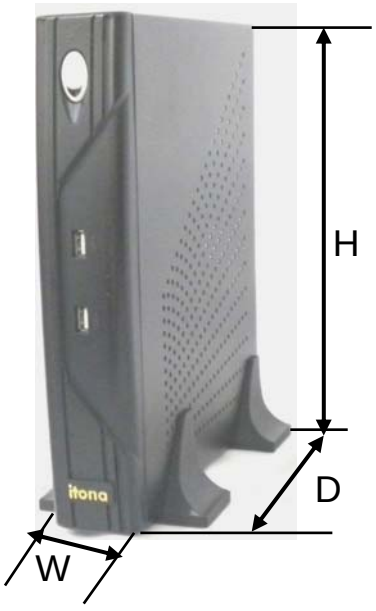
Hardware

- Processor: Intel Atom N270 1.6 GHz
- VGA Memory: Shared Video Memory 64MB min, 128MB max.
- HDD 2.5" : SATA HDD 2.5 inch.
- Flash : IDE 44 Pin
- RAM: 128MB ~ 2GB DDRII 533/667
- Networking 1 : 10/100Mbps
- Networking 2 : 10/100/1000Mbps
- Display resolution: 16/32 Bits 1920x1200 @60Hz max
- Power Supply : Internal Power Supply

Mechanical

Itona 61yy / TC63yy

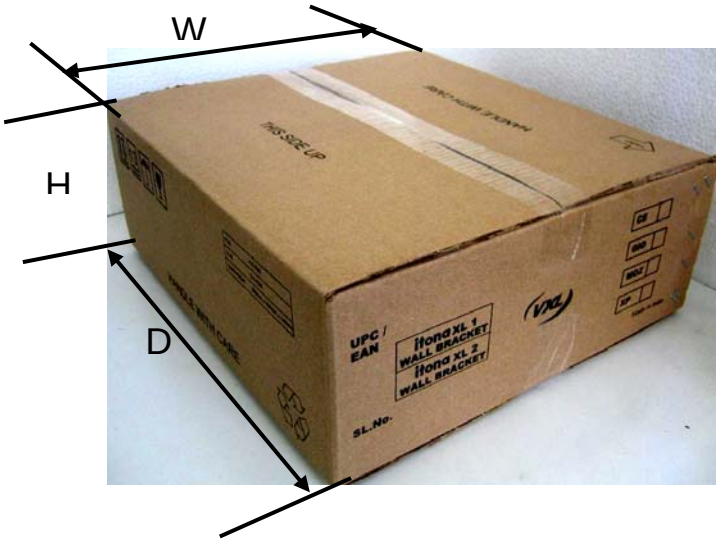
Product Dimension



268mm (H) x 50mm (W) x250mm (D)

Net Weight: 3.0Kgs Approx

Packed Unit Dimension

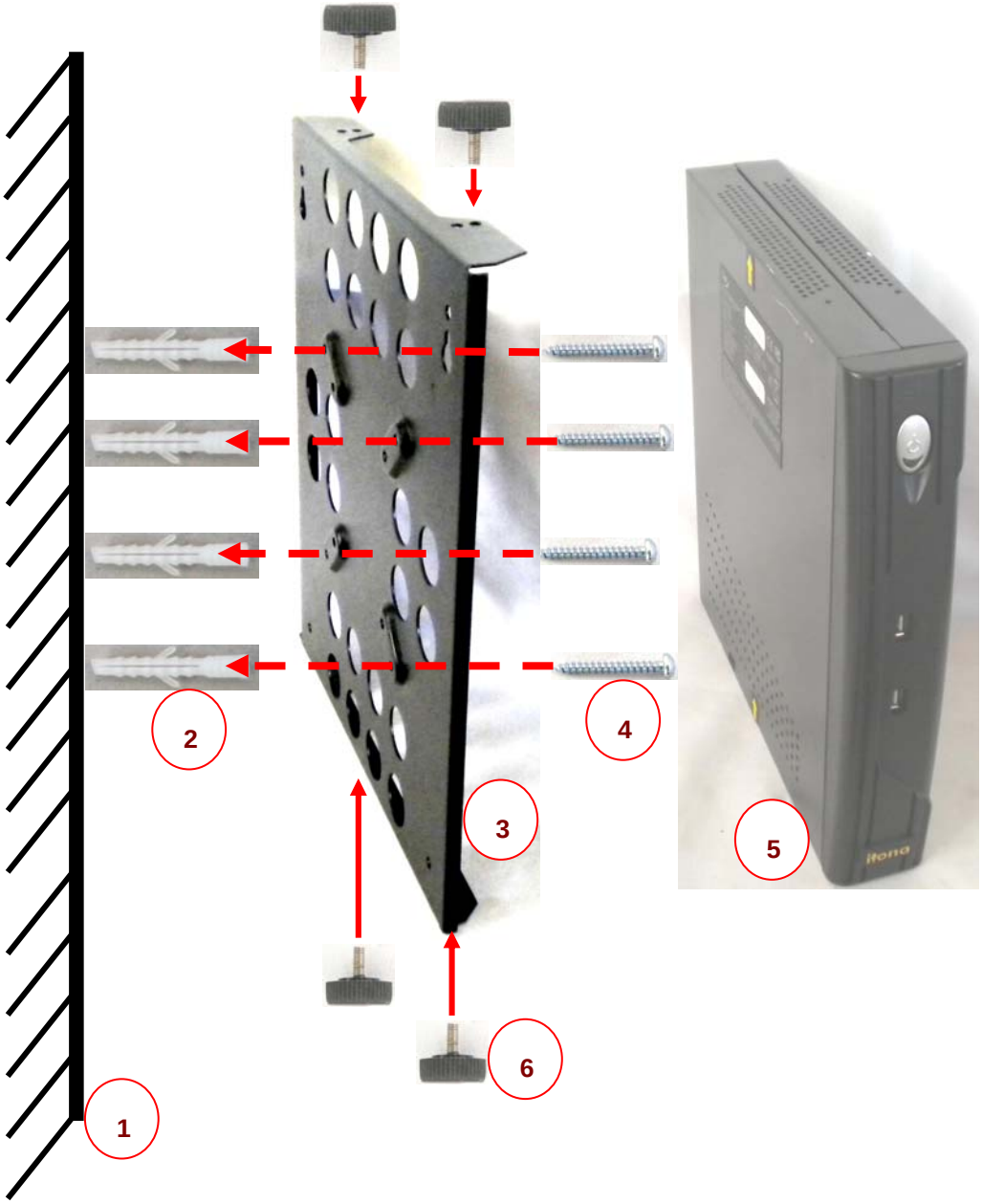


155mm (H) x 360mm (W) x 385mm (D)

Gross Weight: 6.0Kgs Approx

PROCEDURE FOR FIXING

SINGLE SIDE WALL MOUNTING BRACKET for Itona TC61yy and TC63yy



STEPS

1. Wall
2. Drill holes and Insert Wall Plug M7x33, 4no
3. Place Single Side Wall Mounting Bracket
4. Fix Self taped Screws M4x24, 4no
5. Place the Unit
6. Fix Thumb Screws M3x8, 4nos

Environmental Operating

- Temperature : + 5°C to +40°C
- Storage temperature: - 20° C to +65°C
- Humidity: 20% to 80% RH non-condensing

Electrical

- Line Voltage: 100V to 240V AC (+6, -10%)
- Line Frequency: 50 / 60 Hz
- Power Inlet: 1.2A, 3-pin power plug (IEC 320)
- Power Outlet: 3-pin power socket (IEC 320)

  Note: for Devices upto 0.30A max., 100VAC~50/60Hz.
  for Devices upto 0.12A max., 240VAC~50/60Hz.

- MTBF > 50,000 Hrs

Regulatory Certifications

Connectors and Cables

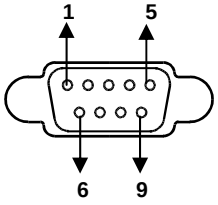
Connectors

The following tables provide pin details for various connectors on the rear panel of the client.

COM Port

9-pin D-type male connector. RS232C compatible, operating at 115.2K baud maximum

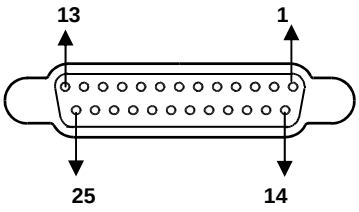
Pin	Signal	Description
1	DCD	Data Carrier Detect
2	RxD	Receive Data
3	TxD	Transmit Data
4	DTR	Data Terminal Ready
5	GND	Signal Ground
6	DSR	Data Set Ready
7	RTS	Request To Send
8	CTS	Clear To Send
9	NC	Not Connected



Printer Port (Parallel)

25-pin D-type female connector. ECP/EPP compatible.

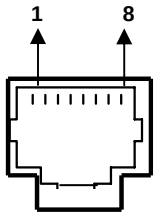
Pin	Signal
1	STROBE
2 - 9	DATA 0 – 7
10	ACKNOWLEDGE
11	BUSY
12	PAPER END
13	SLCT
14	AFD
15	ERROR
18 - 25	GROUND



10/100/1000 LAN Port

RJ-45 modular 8-pin jack. 10/100 Mbps

Pin	Signal
1	TxD+
2	TxD-
3	RxD+
6	RxD-



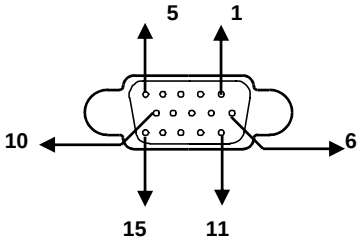
Video Port

15-pin D-type female connector

Pin	Signal
1	Red
2	Green
3	Blue
4	No Connection
5	GND

Pin	Signal
6	Red return GND
7	Green return GND
8	Blue return GND
9	No Connection
10	No Connection

Pin	Signal
11	No Connection
12	No Connection
13	Horizontal Sync
14	Vertical Sync
15	No Connection

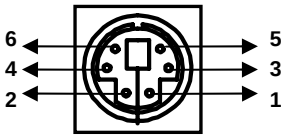


Mouse / Keyboard Port

PS/2 Mouse / Keyboard connector

Pin	Signal
1	Mouse / KBD data
2	NC
3	GND

Pin	Signal
4	VCC
5	Mouse / KBD Clock
6	NC



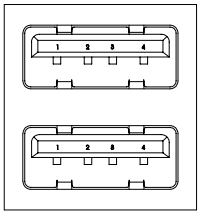
Audio / Microphone Port

Standard audio jacks.

USB Port

4-pin series-A receptacle. 4~ 5 ports depending on the model. Both USB1.1 and USB2.0 models are available.

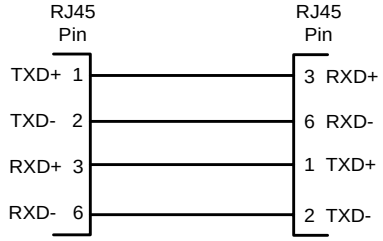
Pin	Signal
1	VCC
2	D-
3	D+
4	GND



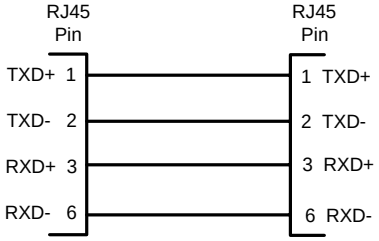
Cables

10/100/1000 LAN Cable

Cross Connection - (Without Hub)



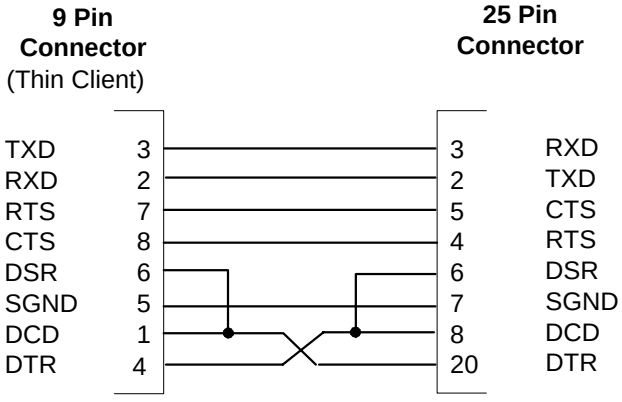
Straight Connection - (With Hub)



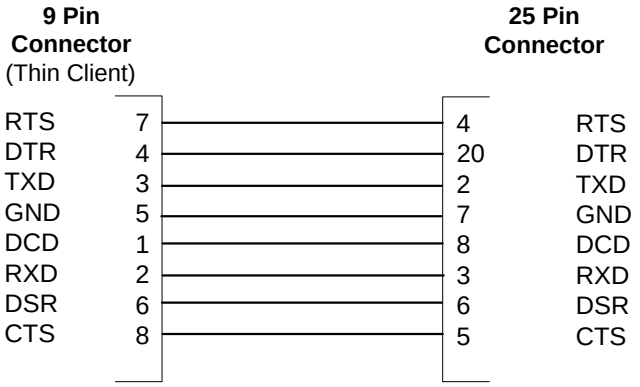
COM Port (Serial Port) Cables

Serial devices like modems and printers use 25 pin D-type connectors for RS232 connections. In order to connect an RS232 device with a 25-pin connector, 9-pin connector signals must be converted to 25-pin connector signals as shown in the following diagram.

9-pin to 25-pin Cross Connection



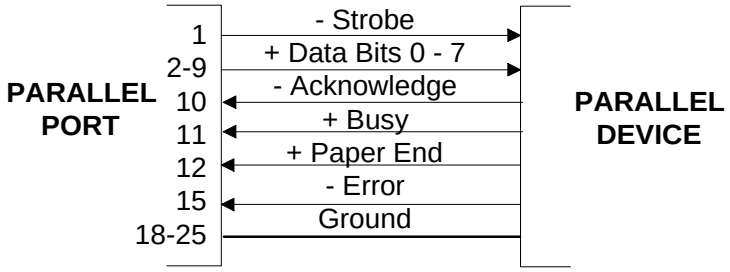
9-pin to 25-pin Straight Connection



Printer Cable

The following table shows the pin connections of the Standard Centronics parallel cable. Some manufacturers change pin functions or polarity on their printers. For such printers, custom cables may be necessary. Refer to your printer manual for cabling information in such cases.

Note: Please use certified shielded cable only.



Troubleshooting

This chapter contains solutions for problems you may encounter while using the product.

Problem	***Solution***
• The Power-LED on front panel does not glow when the client is switched on.	✓ Ensure that the power cord is plugged into an AC outlet. ✓ Check the fuse in the power-plug, if available.
• There is no display, though the power-indicating LED glows.	✓ Ensure that the video cable is properly connected.
• The mouse (*or* keyboard) does not work when the client is switched on.	✓ Ensure that the mouse (*or keyboard*) is plugged into the correct PS/2 port on the rear panel